

CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application:

Claim 1. (cancelled)

Claim 2. (currently amended) A method Procedure according to claim ± 24 ~~characterized in that wherein~~ the technical dental object is ~~maximally moved to a maximum of around~~ the first, second, third and fourth degrees of freedom.

Claim 3. (currently amended) A method Procedure according to claim ± 24 ~~characterized in that wherein~~ as a fifth degree of freedom, a rotation (Rot_x) of the object around the X-axis is chosen.

Claim 4. (currently amended) A method Procedure according to claim ± 24 , ~~wherein characterized in that~~ the technical dental object is ~~maximally rotated around at an angle α around about~~ the T-axis, whereby ~~and wherein~~ $\alpha < 360^\circ$, particularly α ~~and preferably $\leq 180^\circ$ is selected~~.

Claim 5. (currently amended) A method Procedure according to claim ± 24 , ~~wherein characterized in that~~ the technical dental object is ~~represented displayed~~ on the screen monitor in such a way that the technical dental object ~~is established independent of its movement or representation presentation is passed through by~~ from the origin of the coordinate system.

Claim 6. (currently amended) A method Procedure according to claim + 24 ,wherein characterized in that the longitudinal axis of the dental technical dental object is formed through by a traverse polygon with the connected straight lines of connecting the sections of the dental technical dental object, that for shifting of the dental technical dental object along the T-axis, the dental technical dental object is shifted along a straight line of the traverse, which establishes passes through the origin of the coordinate system.

Claim 7. (cancelled)

Claim 8. (currently amended) A method Procedure according to claim + 24 ,wherein characterized in that in that a reduced translation of the object results along the T-axis is carried out.

Claim 9. (currently amended) A method Procedure according to at least claim + 24 ,wherein characterized in that the coordinate system with its origin is specified on the screen monitor in such a way that the origin remains in defined position on the monitor independent of the movement of the object in fixed position on the screen.

Claim 10. (currently amended) A method Procedure according to claim + 24 ,wherein characterized in that the coordinate origin is placed approximately in the center of the screen monitor.

11. (currently amended) A method Procedure according to
~~at least claim + 24 ,wherein characterized in that the reduced rotation is realized around about the T-axis (second degree of freedom) by the object rotating to and from is realized by pivoting the object to and fro.~~

Claim 12. (cancelled)

Claim 13. (cancelled)

Claim 14. (cancelled)

Claim 15. (currently amended) A method Procedure according to claim 9 ~~26 ,wherein characterized in that as one or several input elements~~ an adjusting wheel is used as one or several input elements.

Claim 16. (cancelled)

Claim 17. (cancelled)

Claim 18. (cancelled)

Claim 19. (currently amended) A method Procedure for manufacturing ~~artificial dentures dental prostheses~~ on the basis of digitized data of a jaw area ~~which is to be provided with the dental prosthesis~~ artificial dentures, ~~assessing the artificial dentures computing the dental prosthesis~~ based on the digitized data and ~~representation displaying at least of the artificial dentures on a screen the dental prosthesis on a~~

~~monitor, evaluating the represented artificial dentures displayed dental prosthesis by through moving the artificial dentures dental prosthesis on the around screen maximally monitor to a maximum of five degrees of freedom, and, if necessary, modifying the displayed dental prosthesis changing the represented artificial dentures and the subsequent manufacture of the artificial denture dental prosthesis on the basis of the data that correspond to the represented artificial dentures displayed dental prosthesis.~~

Claim 20. (currently amended) ~~A method Procedure according to claim 19, wherein characterized in the artificial dentures dental prosthesis and the jaw area to be provided with the artificial dentures dental prosthesis be represented are displayed on the screen monitor.~~

Claim 21. (cancelled)

Claim 22. (currently amended) ~~A method Procedure according to at least claim 19, wherein characterized in that the artificial dentures dental prosthesis, which are represented displayed on the monitor screen, are is modeled by an electronic change electronic modification of the data.~~

Claim 23. (cancelled)

Claim 24 (new). A method for displaying a digitized dental technical object, such as a dental prosthesis or a model of at least one tooth or of an area of the jaw to be provided with a dental prosthesis on a monitor, utilizing a right-angled coordinate system with X, Y and Z axes, whereby the Z-axis and the Y-axis and the intersection, or origin of

the coordinate system, of the axes run in the image plane of the monitor and the X -axis runs perpendicular to the image plane and the dental technical object is rotated about two axes running perpendicular to each other and is shifted along the X-axis for zooming the object;

the improvement comprising, the dental technical object is aligned along a T-axis running in a plane defined by the X-axis and the Y-axis and passing through the origin of the coordinate and is moved to a maximum of five degrees of freedom, whereby a rotation (Rot_z)about the Z-axis is chosen as the first degree of freedom, a rotation (Rot_t) about the T-axis is chosen as the second degree of freedom, a translation of the object along the T-axis is chosen as the third degree of freedom and the translation of the object along the X-axis is chosen as the fourth degree of freedom.

Claim 25. (new) A method according to claim 6, wherein, for shifting the dental technical object along consecutive first and second straight lines forming an angle β with $\neq 180^\circ$, the dental technical object is rotated about the angle β about the Z-axis after completion of the shifting along the first straight line before shifting the dental technical object along the second straight line.

Claim 26. (new) A method according to claim 24, wherein an input device is employed for aligning the object on the monitor, said devise having input elements by which the alignment of the object is carried out at the respective degrees of freedom independently of each other.

Claim 27. (new) A method according to claim 26 wherein said input device has four input elements.

Claim 28 (new) A method according to claim 26 wherein a changeover switch is used for one of said input elements.

Claim 29. (new) A method according to claim 26 wherein said input device is a trackball that functions for at least two of said input elements.

Claim 30. (new) A method according to claim 29 wherein, when said trackball is used as one of the input elements, the dental technical object is rotated about the first and second axes as well as about an axis running perpendicular to this axis by analogous rotation of the trackball.

Claim 31. (new) A method according to claim 26 wherein the dental technical object is moved in a restricted manner by the optional operation of individual input elements as well as the combined operation of two input elements around four degrees of freedom.

Claim 32. (new) A method according to claim 20, wherein the digitized data of the jaw area to be provided with the dental prosthesis, that is taken as a basis for computing the dental prosthesis, is linked with stored parameters such as wall thickness of the dental prosthesis or the cement gap between the dental prosthesis and the jaw area and that from data so attained, the dental prosthesis is computed and displayed on the monitor.

Claim 33. (new) A method according to claim 19, wherein the dental prosthesis and/or jaw area are moved on the monitor to a maximum of four degrees of freedom.